

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/010584

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01J37/02 B01J23/44 B01J23/60 B01J23/652 B01J27/02
B01J21/08 C07C51/25 C07C53/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B01J C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 157 739 A (SHOWA DENKO KK) 28 November 2001 (2001-11-28) examples	1-27
A	WO 00/61535 A (SANO KEN ICHI ; OBANA YOSHIAKI (JP); SHOWA DENKO KK (JP); UCHIDA HIROS) 19 October 2000 (2000-10-19) examples	1-27



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- *&* document member of the same patent family

Date of the actual completion of the international search

4 November 2004

Date of mailing of the international search report

11/11/2004

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Information on patent family members

International Application No
PCT/JP2004/010584

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 1157739	A 28-11-2001	AU 6369499 A		21-09-2000
		CA 2360499 A1		08-09-2000
		EP 1157739 A1		28-11-2001
		CN 1335788 T		13-02-2002
		WO 0051725 A1		08-09-2000
		TW 576756 B		21-02-2004
WO 0061535	A 19-10-2000	AU 3670100 A		14-11-2000
		BR 0009762 A		08-01-2002
		CN 1349488 T		15-05-2002
		EP 1185495 A1		13-03-2002
		ID 30345 A		22-11-2001
		WO 0061535 A1		19-10-2000
		JP 2002540942 T		03-12-2002
		TW 491835 B		21-06-2002
		US 6552220 B1		22-04-2003
		ZA 200108153 A		05-06-2002
		US 2003092936 A1		15-05-2003